



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: JT8D-217C
UNIQUE ID NUMBER: 4PW070
COMBUSTOR: Environmental Kit (E_Kit)
ENGINE TYPE: MTF
BYPASS RATIO: 1.7
PRESSURE RATIO (π_{00}): 19.1
RATED THRUST (F_{00}) (kN): 92.7

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	0.0	56.2	52.7	7.9
AS % OF ORIGINAL LIMIT	0.0	47.6	67.5	32.7
AS % OF CAEP/2 LIMIT (NO _x)			84.3	
AS % OF CAEP/4 LIMIT (NO _x)			106.5	
AS % OF CAEP/6 LIMIT (NO _x)			121.0	
AS % OF CAEP/8 LIMIT (NO _x)			151.9	

DATA STATUS

- PRE-REGULATION
x CERTIFICATION
- REVISED (SEE REMARKS)

TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES
x DEDICATED ENGINES TO PRODUCTION STANDARD
- OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
(ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
x OUT OF PRODUCTION (DATE: -)
- OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	HC	CO	NO _x	SMOKE NUMBER
TAKE-OFF	100	0.7	1.282	0.00	0.42	16.49	6.1
CLIMB OUT	85	2.2	1.045	0.00	0.49	13.02	4.0
APPROACH	30	4.0	0.363	0.00	3.79	7.65	1.5
IDLE	7	26.0	0.137	0.00	17.89	4.05	0.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			493	0	4244	4216	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				0.0	45.8	45.5	6.1
SIGMA (D _p /F ₀₀ in g/kN, or SN)							
RANGE (D _p /F ₀₀ in g/kN, or SN)							

ACCESSORY LOADS

POWER EXTRACTION 0 (kW)
STAGE BLEED 0 (% CORE FLOW)

AT - POWER SETTINGS
AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	98.8-103.1
TEMPERATURE (K)	271-281
ABS HUMIDITY (kg/kg)	0.0009-0.0047

FUEL

SPEC	Jet A
H/C	1.91
AROM (%)	18

MANUFACTURER: Pratt & Whitney
TEST ORGANIZATION: P&WA
TEST LOCATION: East Hartford, CT
TEST DATES: 24/02/1999-02/03/1999

REMARKS

1. Environmental Kit (E-Kit) Combustor and Fuel Nozzles, incorporated 5/99

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)